

#3

PATENT  
Customer Number 22,852  
Attorney Docket No. 6502.0036-12

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
 )  
Patrick J. NAUGHTON et al. ) Prior Application  
 )  
Rule 53(b) Continuation Application ) Group Art Unit: 2173  
Serial No.: 09/628,300 )  
 )  
Filed: Herewith ) Examiner: C. Dela Torre  
 )  
For: GRAPHICAL USER INTERFACE )  
FOR DISPLAYING AND )  
NAVIGATING IN A DIRECTED )  
GRAPH STRUCTURE )

11002 U.S. PTO  
10/052747  
01/23/02

Commissioner for Patents and Trademarks  
Washington, DC 20231

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed concurrently with the filing date of the above-referenced application.

Copies of the listed documents were previously submitted in prior applications, namely, serial no. 09/628,300, filed July 28, 2000, serial no. 08/067,574, filed May 24, 1993, and serial no. 08/406,578, filed March 20, 1995, upon which Applicants rely for the benefits provided in 35 U.S.C. § 120. Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.


Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: January 23, 2002

By:   
Jeffrey A. Berkowitz  
for Reg. No. 36,743

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

**INFORMATION DISCLOSURE CITATION**  
(Us several sheets if necessary)

Atty. Docket No.: 6502.0036-12				Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300		
Applicants: Patrick J. NAUGHTON et al.						
Filing Date: Herewith				Prior Group: 2173		
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	4,290,142	9/15/81	Schnee et al.			
	4,533,910	8/6/85	Sukonick et al.			
	4,536,791	8/20/85	Campbell et al.			
	4,555,775	11/26/85	Pike			
	4,573,072	2/25/86	Freeman			
	4,622,545	11/11/86	Atkinson			
	4,641,205	2/3/87	Beyers, Jr.			
	4,653,090	3/24/87	Hayden			
	4,706,121	11/10/87	Young			
	4,712,191	12/8/87	Penna			
	Re. 32,632	3/29/88	Atkinson			
	4,748,618	5/31/88	Brown et al.			
	4,750,036	6/7/88	Martinez			
	4,772,882	9/20/88	Mical			
	4,785,408	11/15/88	Britton et al.			
	4,788,538	11/29/88	Klein et al.			
	4,812,834	3/14/89	Wells			
	4,847,604	7/11/89	Doyle			
	4,847,700	7/11/89	Freeman			
	4,873,623	10/10/89	Lane et al.			
	4,884,223	11/28/89	Ingle et al.			
	4,890,320	12/26/89	Monslow et al.			
	4,899,136	2/6/90	Beard et al.			
Examiner				Date Considered		
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						
Form PTO 1449		Patent and Trademark Office - U.S. Department of Commerce				

**INFORMATION DISCLOSURE CITATION**  
**(Use sev ral sheets if nec ssary)**

Atty. Docket No.: 6502.0036-12				Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300			
Applicants: Patrick J. NAUGHTON et al.							
Filing Date: Herewith				Prior Group: 2173			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
		4,914,517	4/3/90	Duffield			
		4,914,732	4/3/90	Henderson et al.			
		4,931,783	6/5/90	Atkinson			
		4,935,865	6/19/90	Rowe et al.			
		4,939,507	7/3/90	Beard et al.			
		4,959,720	9/25/90	Duffield et al.			
		4,977,455	12/11/90	Young			
		4,987,486	1/22/91	Johnson et al.			
		4,995,078	2/19/91	Monslow et al.			
		5,008,853	4/16/91	Bly et al.			
		5,014,125	5/7/91	Pocock et al			
		5,021,976	6/4/91	Wexelblat et al.			
		5,047,867	9/10/91	Strubbe et al.			
		5,062,060	10/29/91	Kolnick			
		5,065,347	11/12/91	Pajak et al.			
		5,072,412	12/10/91	Henderson Jr. et al.			
		5,086,385	2/4/92	Launey et al.			
		5,093,718	3/3/92	Hoarty et al.			
		5,107,443	4/21/92	Smith et al.			
		5,140,677	8/18/92	Fleming et al.			
		5,140,678	8/18/92	Torres			
		5,146,556	9/8/92	Hullot et al.			
		5,148,154	9/15/92	MacKay et al.			
Examiner				Date Considered			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
Form PTO 1449				Patent and Trademark Office - U.S. Department of Commerce			

**INFORMATION DISCLOSURE CITATION**  
**(Us s veral sh ets if nec ssary)**

Atty. Docket No.: 6502.0036-12				Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300			
Applicants: Patrick J. NAUGHTON et al.							
Filing Date: Herewith				Prior Group: 2173			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate	
	5,151,782	9/29/92	Ferraro				
	5,151,789	9/29/92	Young				
	5,155,806	10/13/92	Hoeber et al.				
	5,157,768	10/20/92	Hoeber et al.				
	5,177,604	1/5/93	Martinez				
	5,195,092	3/16/93	Wilson et al.				
	B14,977,455	4/13/93	Young				
	5,204,947	4/20/93	Bernstein et al.				
	5,206,722	4/27/93	Kwan				
	5,220,420	6/15/93	Hoarty et al.				
	5,223,924	6/29/93	Strubbe				
	5,233,687	8/3/93	Henderson, Jr. et al.				
	Re. 34,340	8/10/93	Freeman				
	5,235,679	8/10/93	Yoshizawa et al.				
	5,236,199	8/17/93	Thompson, Jr.				
	5,239,540	8/24/93	Rovira et al.				
	5,241,671	8/31/93	Reed et al.				
	5,247,347	9/21/93	Litteral et al.				
	5,253,067	10/12/93	Chaney et al.				
	5,295,062	3/15/94	Fukushima				
	5,295,243	3/15/94	Robertson et al.				
	5,297,253	3/22/94	Meisel				
	5,310,349	5/10/94	Daniels et al.				
Examiner				Date Considered			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
Form PTO 1449				Patent and Trademark Office - U.S. Department of Commerce			

**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Atty. Docket No.: 6502.0036-12				Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300			
Applicants: Patrick J. NAUGHTON et al.							
Filing Date: Herewith				Prior Group: 2173			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
		5,327,160	7/5/94	Asher			
		5,327,161	7/5/94	Logan et al.			
		5,333,254	7/26/94	Robertson			
		5,333,256	7/26/94	Green et al.			
		5,347,628	9/13/94	Brewer et al.			
		5,349,658	9/20/94	O'Rourke et al.			
		5,357,276	10/18/94	Banker et al.			
		5,361,091	11/1/94	Hoarty et al.			
		5,363,482	11/8/94	Victor et al.			
		5,367,454	11/22/94	Kawamoto et al.			
		5,371,553	12/6/94	Kawamura et al.			
		5,377,997	1/3/95	Wilden et al.			
		5,381,158	1/10/95	Takahara et al.			
		5,388,993	2/14/95	McKiel et al.			
		5,392,389	2/21/95	Fleming			
		5,393,073	2/28/95	Best			
		5,394,521	2/28/95	Henderson, Jr. et al.			
		5,396,546	3/7/95	Remillard			
		5 397,678	3/14/95	Sato et al.			
		5,410,326	4/25/95	Goldstein			
		5,412,377	5/2/95	Evans et al.			
		5,416,901	5/16/95	Torres			
		5,422,993	6/6/95	Fleming			
Examiner				Date Considered			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
Form PTO 1449				Patent and Trademark Office - U.S. Department of Commerce			

**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Atty. Docket No.: 6502.0036-12				Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300		
Applicants: Patrick J. NAUGHTON et al.						
Filing Date: Herewith				Prior Group: 2173		
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	5,428,734	6/27/95	Haynes et al.			
	5,434,965	7/18/95	Matheny et al.			
	5,442,376	8/15/95	Tannebaum et al.			
	5,442,742	8/15/95	Greyson et al.			
	5,457,478	10/10/95	Frank			
	5,461,710	10/24/95	Bloomfield et al.			
	5,463,725	10/31/95	Henckel et al.			
	5,463,726	10/31/95	Price			
	5,485,197	1/16/96	Hoarty			
	5,491,743	2/13/96	Shiio et al.			
	5,491,784	2/13/96	Douglas et al.			
	5,500,794	3/19/96	Fujita et al.			
	5,517,663	5/14/96	Kahn			
	5,524,195	6/4/96	Clanton III et al			
	5,530,865	6/25/96	Owens et al.			
	5,543,857	8/6/96	Wehmeyer et al.			
	5,555,354	9/10/96	Strasnick et al.			
	5,561,444	10/1/96	Johnston, Jr. et al.			
	5,638,505	6/10/97	Hemenway et al.			
	5,657,221	8/12/97	Warman et al.			
	5,666,552	9/9/97	Greyson et al.			
	5,689,663	11/18/97	Williams			
	5,694,151	12/2/97	Johnston, Jr. et al.			
Examiner				Date Considered		
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						
Form PTO 1449		Patent and Trademark Office - U.S. Department of Commerce				

**INFORMATION DISCLOSURE CITATION**  
(Us several sheets if necessary)

Atty. Docket No.: 6502.0036-12				Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300			
Applicants: Patrick J. NAUGHTON et al.							
Filing Date: Herewith				Prior Group: 2173			
<b>U.S. PATENT DOCUMENTS</b>							
<b>Examiner Initial*</b>		<b>Document Number</b>	<b>Date</b>	<b>Name</b>	<b>Class</b>	<b>Sub Class</b>	<b>Filing Date If Appropriate</b>
		5,754,178	5/19/98	Johnston, Jr. et al.			
		5,886,697	3/23/99	Naughton et al.			
		5,995,106	11/30/99	Naughton et al.			
		DES. 348,654	7/12/94	Branck et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>Document Number</b>	<b>Date</b>	<b>Country</b>	<b>Class</b>	<b>Sub Class</b>	<b>Translation Yes or N</b>
		0 239 884	10/7/87	European			
		0 438 017	7/24/91	European			
		0 439 873	8/7/91	European			
		93/11639	11/30/92	PCT			
		0 524 103	1/20/93	European			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Alexander, "Visualizing Cleared-Off Desktops," Computerworld, May 6, 1991, p. 20						
	Jeffrey J. Blatt, "A Primer on User Interface Software Patents," 9 The Computer Lawyer, Vol. 9, No. 4, April, 1992						
	P. Chan, "Learning Considerations in User Interface Design: The Room Model," Report CS-84-16, University of Waterloo, Computer Science Dept., Waterloo, Ontario, Canada, July, 1984						
	Stavros Christodoulakis et al., "Browsing Within Time-Driven Multimedia Documents," Institute for Computer Research, University of Waterloo, Waterloo, Ontario, Canada, July, 1988						
	Chung et al., "A 'Tiny' Pascal Compiler: the P-Code Interpreter," BYTE Publications Inc., September, 1978						
	Chung et al., "A 'Tiny' Pascal Compiler Part 2: The P-Compiler," BYTE Publications Inc., October, 1978						
	Conference Proceeding, The 10 <sup>th</sup> Annual International Symposium on Computer Architecture, Royal Institute of Technology, Stockholm, Sweden, 1983						
Examiner				Date Considered			
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
Form PTO 1449				Patent and Trademark Office - U.S. Department of Commerce			



**INFORMATION DISCLOSURE CITATION**  
(Us s veral sheets if necessary)

Atty. Docket No.: 6502.0036-12	Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300
Applicants: Patrick J. NAUGHTON et al.	
Filing Date: Herewith	Prior Group: 2173
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>	
	Hoarty, "Multimedia on Cable Television Systems," 10/5/93, pp. 555-567
	Hsia et al., "Construction and Manipulation of Dynamic Icons," IEEE 78, 1988
	(IBM), "Conferencing Metaphor," 2/2/93, pp. 63-66
	IBM Technical Disclosure Bulletin, "Creation/Modification of the Audio Signal Processor Setup for a PC Audio Editor," Vol. 30, No. 10, March, 1988
	IBM Technical Disclosure Bulletin, Vol. 34, No. 5, pgs. 24-26, October 5, 1991
	IBM Technical Disclosure Bulletin, Vol. 36, No. 4, pgs. 215-216, April, 1993
	Hiroshi Ishii et al., "Clearface: Translucent Multiuser Interface for TeamWork Station," ECSCW, September, 1991, pp. 6-10
	Hiroshi Ishii et al., "Toward an Open Shared Workspace," Communications of the ACM, Vol. 34, No. 12, December, 1991, pp. 37-50
	B. Laurel, "Computers as Theater," Addison Wesley Pub. Co., 1990
	B. Laurel, "Computers as Theater," Addison Wesley Pub. Co., 1993
	B. Laurel, "The Art of Human-Computer Interface Design," Addison Wesley Pub. Co., 1990
	B. Laurel, "The Art of Human Computer Interface Design," Apple Computer Inc., 1991
	Gene McDaniel, "An Analysis of a Mesa Instruction Set," Palo Alto Research Centers, 1982
	Brad A. Meyers, "The Importance of Percent-Done Progress Indicators for Computer-Human Interfaces," ACM 11, 1989
	Mitchell et al., "Mesa Language Manual," Palo Alto Research Centers
	Kenneth A. Pier, "A Retrospective on the Dorado, A High-Performance Personal Computer," Palo Alto Research Centers, August, 1983
	George Robertson et al., Communications for the Assoc. for Computing Machinery, "Information Visualization Using 3D Interactive Animation," Vol. 36, No. 4, April, 1993, pp. 57-71
	George Robertson et al., UIST Proceedings of the ACM Siggraph Symposium on User Interface Software and Technology, "The Cognitive Coprocessor Architecture for Interactive User Interfaces," 13-15, November, 1989, Williamsburg, VA, pp. 10-18
	Sega of America, "Sonic the Hedgehog," 1991
	Tanigawa, "Personal Multimedia-Multipoint Teleconference System," 4/7/91, pp. 1127-1144
Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce

**INFORMATION DISCLOSURE CITATION**  
**(Us several sh ets if n cessary)**

Atty. Docket No.: 6502.0036-12	Serial No.: Rule 53(b) Continuation Application Serial No. 09/628,300
Applicants: Patrick J. NAUGHTON et al.	
Filing Date: Herewith	Prior Group: 2173
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>	
	Thompson, "Regular Expression Search Algorithm," Communications of the ACM, Vol. 11, No. 6, June 1968 at 418 <u>et seq.</u>
	Y. Tonomura et al., "Content Oriented Interface Using Video Icons for Visual Database Systems," IEEE 68, 1989
	Hirotsada Ueda et al., "Impact: An Interactive Natural-Motion-Picture Dedicated Multi-Media Authoring System," Communications of the ACM, March, 1991, pp. 343-350
Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce